



Agronomy Notes

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University of California
Cooperative Extension

Colusa, Sutter, Yuba and
Glenn Counties



Meeting Announcement:

2008 California Alfalfa & Forage Symposium And Western Alfalfa Seed Conference

Dec 2-4, 2008

Town and Country Resort and Convention Center
San Diego, CA

Register at: <http://alfalfa.ucdavis.edu>

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Wheat Variety Test Results from 2008 Trials

The following are the Sacramento Valley Trial results conducted by the UC Regional Cereal Testing Program in cooperation with UC Farm Advisors and grower cooperators.

Table 1 is a summary of irrigated trial locations and reflects substantially higher yields from non-irrigated trial locations reported in Table 4. The dry spring of 2008 provided good growing conditions for wheat, with the exception of extreme winds that resulted in higher than normal shattering of mature wheat that was ready to harvest (Table 3).

Stripe rust was generally not a wide spread problem in the Sacramento Valley for varieties that maintained resistance to the disease. Isolated fields of Cal Rojo were infected with stripe rust while fields nearby did not have symptoms. Cal Rojo did not show signs of stripe rust infection in the variety trials locations (Table 2).

The ratings for stripe rust and shatter are on a 1 to 8 scale. The numeric rating equals percentage of infected plants or percent shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

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United States Department
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Table1. 2006-08 COMMON WHEAT AND TRITICALE YIELD SUMMARY, SACRAMENTO VALLEY

Yields are in pounds per acre

Entry	Name	Mean (8 Loc/Yr)	Colusa		UC Davis			Sac-SJ Delta		
			2007	2008	2006	2007	2008	2006	2007	2008
CULTIVARS										
20	ANZA	5440 (15)	6240 (13)	5580 (13)	4430 (14)	5060 (20)	4500 (16)	4790 (12)	6670 (20)	6240 (14)
112	YECORA ROJO	4180 (21)	4750 (18)	3590 (20)	2820 (21)	5640 (15)	4380 (17)	2790 (20)	6630 (21)	2810 (21)
788	EXPRESS	4560 (20)	4730 (19)	4280 (17)	4160 (15)	5240 (19)	3140 (21)	2790 (21)	7340 (17)	4820 (18)
1155	SUMMIT	4870 (18)	6450 (10)	3560 (21)	3030 (20)	6040 (10)	4660 (14)	4450 (15)	7590 (14)	3140 (20)
1156	BLANCA GRANDE	5690 (13)	5410 (17)	5080 (15)	4100 (16)	6200 (7)	6160 (9)	5290 (11)	7800 (10)	5470 (15)
1340	MIKA	4830 (19)	4640 (20)	4600 (16)	5460 (11)	4920 (21)	3230 (20)	2800 (19)	7680 (11)	5300 (16)
1341	DASH 12	5410 (16)	5870 (16)	3650 (19)	6420 (3)	5920 (11)	3930 (19)	4100 (16)	8370 (4)	5040 (17)
1361	CLEAR WHITE	5880 (11)	6370 (11)	6790 (10)	3880 (17)	5300 (18)	5670 (11)	5670 (6)	7050 (19)	6290 (13)
1392	SOLANO	5110 (17)	6610 (8)	4060 (18)	3070 (19)	5830 (13)	4790 (13)	4520 (14)	7400 (16)	4610 (19)
1419	PATWIN	6450 (7)	6600 (9)	7340 (6)	5500 (9)	5500 (17)	6610 (7)	5550 (9)	7630 (12)	6840 (11)
1424	JOAQUIN	6340 (10)	6230 (14)	7010 (8)	3300 (18)	6770 (3)	6060 (10)	6130 (3)	7980 (8)	7210 (7)
1478	CAL ROJO	6800 (6)	7080 (6)	7530 (5)	5240 (12)	5880 (12)	7030 (4)	6580 (2)	7610 (13)	7470 (4)
1495	LASSIK	6430 (8)	7100 (5)	6940 (9)	6010 (5)	6190 (8)	6370 (8)	4690 (13)	7070 (18)	7090 (9)
1500	EXPRESSO	5570 (14)	4360 (21)	5270 (14)	5630 (7)	5610 (16)	4040 (18)	5470 (10)	7520 (15)	6640 (12)
1521	REDWING	6820 (5)	6830 (7)	7030 (7)	6040 (4)	6400 (5)	7100 (3)	6000 (4)	8220 (6)	6950 (10)
1522	BLANCA ROYALE	6370 (9)	6320 (12)	6780 (11)	5170 (13)	6260 (6)	5510 (12)	5580 (8)	7970 (9)	7380 (5)
1523	BLANCA FUERTE	7150 (3)	7700 (4)	7650 (4)	5480 (10)	6670 (4)	7550 (2)	5640 (7)	8380 (3)	8110 (3)
ADVANCED LINES										
1496	WWW BR5874E	5840 (12)	6120 (15)	5790 (12)	5860 (6)	5770 (14)	4640 (15)	3200 (18)	8240 (5)	7110 (8)
TRITICALE										
3097	TRICAL BRAND 105	7090 (4)	8000 (3)	7790 (3)	7110 (2)	6160 (9)	6940 (6)	4080 (17)	8400 (2)	8250 (2)
3156	TRICAL BRAND 118	7990 (1)	8510 (1)	8800 (1)	7280 (1)	7220 (2)	7810 (1)	6830 (1)	8760 (1)	8690 (1)
3158	TRICAL BRAND 98	7210 (2)	8110 (2)	8250 (2)	5520 (8)	7720 (1)	6990 (5)	5740 (5)	8060 (7)	7280 (6)
	MEAN	6000	5940	5980	4730	5720	5330	4630	7370	6390
	CV	8.8	10.3	12.0	6.5	5.0	14.1	14.8	6.6	7.7
	LSD (.05)	260	860	1010	430	400	1050	960	680	690

Numbers in parentheses indicate relative rank in column.

Table2. 2008 COMMON WHEAT AND TRITICALE STRIPE RUST SUMMARY

Entry	Name	Stripe Rust				
		Mean (4 Loc)	Colusa	UC Davis	Sac-SJ Delta	Kern
WHEAT						
20	ANZA	5.2 (22)	7.0	6.8	4.8	2.3
112	YECORA ROJO	7.6 (27)	8.0	8.0	8.0	6.5
788	EXPRESS	5.7 (23)	7.3	7.0	6.8	1.8
1155	SUMMIT	6.7 (26)	8.0	8.0	8.0	2.8
1156	BLANCA GRANDE	6.1 (25)	8.0	7.5	7.8	1.0
1340	MIKA	2.1 (16)	3.0	3.3	1.0	1.0
1341	DASH 12	2.9 (19)	3.3	3.3	4.0	1.0
1361	CLEAR WHITE	3.8 (21)	5.3	4.0	5.0	1.0
1392	SOLANO	5.7 (23)	7.8	6.8	7.3	1.0
1419	PATWIN	1.0 (1)	1.0	1.0	1.0	1.0
1424	JOAQUIN	3.6 (20)	3.8	5.0	3.3	2.3
1478	CAL ROJO	1.1 (9)	1.0	1.0	1.3	1.0
1489	OTIS	1.9 (15)	2.0	3.5	1.3	1.0
1495	LASSIK	1.0 (1)	1.0	1.0	1.0	1.0
1500	EXPRESSO	1.0 (1)	1.0	1.0	1.0	1.0
1521	REDWING	1.2 (12)	1.8	1.0	1.0	1.0
1522	BLANCA ROYALE	1.0 (1)	1.0	1.0	1.0	1.0
1523	BLANCA FUERTE	1.0 (1)	1.0	1.0	1.0	1.0
1555	LARIAT	1.0 (1)	1.0	1.0	1.0	1.0
1586	SAGITTARIO	2.4 (17)	3.3	2.5	2.8	1.0
1587	VAIOLET	1.5 (14)	1.3	2.0	1.8	1.0
1590	ULTRA	1.0 (1)	1.0	1.0	1.0	1.0
TRITICALE						
3097	TRICAL BRAND 105	1.0 (1)	1.0	1.0	1.0	1.0
3156	TRICAL BRAND 118	1.1 (9)	1.0	1.0	1.3	1.0
3158	TRICAL BRAND 98	2.4 (18)	2.0	3.0	3.3	1.5
3163	RSI 01T40207	1.3 (13)	1.3	1.3	1.8	1.0
3164	WB ACS 55304	1.1 (11)	1.0	1.5	1.0	1.0
MEAN		2.3	2.6	2.8	2.4	1.3
CV		29.0	32.1	18.8	27.2	45.0
LSD (.05)		0.5	1.2	0.7	0.9	0.8

Rating scale for diseases (area of flag-1 leaf affected): 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

Table 3. 2008 COMMON WHEAT AND TRITICALE SHATTER SUMMARY

Entry	Name	Shatter 2008					
		Mean (5 locs)	Colusa	UC Davis	Sac/SJ Delta	Fresno	Imperial
WHEAT							
20	ANZA	1.2 (13)	1.3	1.0	1.3	1.0	1.3
112	YECORA ROJO	1.3 (19)	1.0	1.5	1.0	1.8	1.0
788	EXPRESS	2.0 (35)	1.3	3.0	1.8	2.5	1.5
1155	SUMMIT	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1156	BLANCA GRANDE	1.6 (27)	1.0	2.3	2.3	1.3	1.3
1340	MIKA	2.7 (39)	2.8	3.5	2.5	2.8	1.8
1341	DASH 12	2.6 (37)	2.8	3.3	3.3	2.3	1.3
1361	CLEAR WHITE	1.4 (23)	1.0	1.3	1.8	1.0	1.8
1392	SOLANO	1.3 (21)	1.0	1.8	1.0	1.5	1.3
1419	PATWIN	1.2 (13)	1.0	1.0	1.0	1.0	1.8
1424	JOAQUIN	1.6 (26)	1.0	1.8	1.8	1.3	2.0
1478	CAL ROJO	1.2 (17)	1.3	1.3	1.3	1.0	1.3
1489	OTIS	1.5 (25)	1.3	2.0	1.3	1.0	2.0
1495	LASSIK	1.2 (17)	1.3	1.0	1.8	1.0	1.0
1500	EXPRESSO	2.6 (38)	2.3	3.8	1.8	3.3	2.0
1521	REDWING	1.1 (8)	1.0	1.3	1.0	1.0	1.0
1522	BLANCA ROYALE	1.8 (29)	1.0	2.8	1.3	1.5	2.3
1523	BLANCA FUERTE	1.2 (13)	1.0	1.8	1.0	1.0	1.0
1555	LARIAT	1.9 (31)	1.3	2.8	1.5	1.5	2.3
1586	SAGITTARIO	1.1 (8)	1.0	1.0	1.0	1.0	1.3
1587	VAIOLET	1.3 (19)	1.0	1.0	1.0	1.0	2.3
1590	ULTRA	1.0 (1)	1.0	1.0	1.0	1.0	1.0
TRITICALE							
3097	TRICAL BRAND 105	1.0 (1)	1.0	1.0	1.0	1.0	1.0
3156	TRICAL BRAND 118	1.1 (11)	1.0	1.0	1.0	1.0	1.5
3158	TRICAL BRAND 98	1.1 (8)	1.0	1.0	1.0	1.0	1.3
3163	RSI 01T40207	1.0 (1)	1.0	1.0	1.0	1.0	1.0
3164	WB ACS 55304	1.0 (1)	1.0	1.0	1.0	1.0	1.0
MEAN		1.8	1.5	2.1	1.6	1.8	1.7
CV		33.3	34.6	31.9	34.4	26.6	38.1
LSD (.05)		0.4	0.7	1.0	0.8	0.7	0.9

Rating scale for shatter 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Number in parenthesis indicates relative rank in column

Table 4. 2006-08 **Sacramento Valley rainfed** wheat yield summary. Yields are in pounds per acre
 Yields are in pounds per acre

Variety	Average 2006-08 (5 Loc-Yr)	Glenn County			Tulare County	
		2006	2007	2008	2006	2007
WHEAT						
ANZA	2440 (13)	3330 (12)	2420 (16)	2330 (10)	3330 (14)	800 (2)
EXPRESS	2650 (9)	3430 (8)	3390 (9)	2530 (6)	3470 (11)	430 (15)
SUMMIT	2890 (3)	2940 (16)	4150 (2)	2800 (3)	4050 (4)	500 (12)
BLANCA GRANDE	2870 (5)	3970 (1)	3590 (5)	2920 (2)	3530 (9)	330 (16)
MIKA	2530 (11)	3710 (6)	2350 (17)	2210 (12)	3590 (8)	760 (4)
DASH 12	2850 (6)	3510 (7)	3270 (10)	2520 (7)	4330 (2)	620 (8)
CLEAR WHITE	2360 (15)	2730 (17)	2880 (13)	2490 (8)	3010 (15)	700 (6)
SOLANO	2880 (4)	3930 (3)	3540 (6)	2700 (4)	3760 (7)	450 (14)
PATWIN	2570 (10)	3040 (14)	3450 (8)	1860 (15)	3790 (6)	710 (5)
JOAQUIN	2680 (8)	3360 (10)	3480 (7)	3150 (1)	2890 (16)	520 (11)
CAL ROJO	3030 (1)	3950 (2)	3800 (4)	2670 (5)	4230 (3)	520 (10)
LASSIK	2490 (12)	3880 (4)	2570 (14)	2080 (14)	3460 (12)	470 (13)
TRITICALE						
TRICAL BRAND 105	2400 (14)	3090 (13)	2920 (12)	1810 (16)	3400 (13)	810 (1)
TRICAL BRAND 118	3030 (2)	3820 (5)	3870 (3)	2320 (11)	4350 (1)	770 (3)
TRICAL BRAND 98	2790 (7)	3350 (11)	4270 (1)	2170 (13)	3530 (10)	640 (7)
CV	14.7	12.1	13.8	14.2	7.9	66.1
LSD 0.05	250	830	590	470	400	-

Numbers in parentheses indicate relative rank in column.

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